

AMENDMENTS TO THE CLAIMS

Please cancel originally filed claims 1-19 and add the following new claims 20-39 without prejudice.

Complete listing of the claims:

1-19. (Cancelled)

20. (New - Revision of Original Claim 1) A breadboard comprising a plate made of an insulating material and having a connection strip portion including a grouping of at least three rows of sets of at least three spaced apart holes in each set in the plate, the centers of the holes in each set being spaced from each other by a predetermined distance, groups of at least three connector clips in the plate each connected in at least a three gang grouping, each grouping being referred to as a conductive strip which is aligned with and beneath one of the rows of sets of holes with all conductive strips being electrically isolated from each other, and the sets being aligned in each row, end-to-end, and each row being offset or staggered from each adjacent row such that an array of spaces is formed, with each space in an interior row forming a center of a diamond shaped four pin socket, that has a connector clip in the plate at each of its four points or corners, that originates from a different conductive strip.

21. (New - Original Claim 2) The breadboard of claim 20 wherein said space is approximately 0.1 inch.

22. (New – Original Claim 3) The breadboard of claim 20 combined with a terminal strip portion in said plate comprising at least one elongate grouping of transversely extending rows of holes, with each row containing three to seven holes, a conductive strip of connector clips situated in the plate beneath each row, each hole defining an electrical contact point on the conductive strip, with all of the conductive strips being electrically isolated from each other, and the adjacent holes having a predetermined center-to-center spacing between them.

23. (New – Original Claim 4) The breadboard of claim 22 comprising two elongate groupings of transversely extending rows of holes.

24. (New – Original Claim 5) The breadboard of claim 23 wherein the two groupings are spaced apart a distance which will result in an end hole in one row of holes in one grouping of rows of holes having a center-to-center distance of approximately 0.3 inch with the closest end hole in a row of holes in the other grouping of rows of holes.

25. (New – Original Claim 6) The breadboard of claim 22 wherein the center-to-center spacing between adjacent pinholes is approximately 0.1 inch.

26. (New – Original Claim 7) The breadboard of claim 22 wherein each row comprises five spaced apart pinholes.

27. (New – Original Claim 8) The breadboard of claim 20 combined with a distribution strip portion comprising at least one line of groups of spaced apart holes in the plate, each group comprising three to seven holes with adjacent holes being separated by a predetermined center-to-center spacing and the end holes in adjacent end-to end groups being spaced apart by said spacing.

28. (New – Original Claim 9) The breadboard of claim 27 wherein said center-to-center spacing is approximately 0.1 inch.

29. (New – Original Claim 10) The breadboard of claim 20 wherein each set of holes includes at least four holes and each group of connection clips include at least four clips in a four gang grouping.

30. (New – Original Claim 11) The breadboard of claim 20 wherein each set of pinholes includes at least five pinholes and each group of connection clips include at

least five clips in a five gang grouping.

31. (New – Revision of Original Claim 12) A breadboard comprising a plate made of an insulating material and having a connection strip portion including a grouping of at least three rows of sets of at least three spaced apart holes in each set in the plate, the centers of the holes in each set being spaced from each other by a predetermined distance, groups of at least three connection clips in the plate each connected in an at least a three gang grouping, each grouping being referred to as a conductive strip which is aligned with and beneath one of the rows of sets of holes with all conductive strips being electrically isolated from each other, and the sets being aligned in each row, end-to-end, and each row being offset or staggered from each adjacent row such that an array of spaces is formed, with each space in an interior row forming a center of a diamond shaped four pin socket, that has a conductive clip in the plate at each of its four points or corners, that originate from a different conductive strip, a terminal strip portion in said plate comprising at least one elongate grouping of transversely extending rows of holes, with each row containing three to seven holes, a conductive strip of connector clips situated in the plate beneath each row, each hole defining an electrical contact point on the conductive strip, with all of the conductive strips being electrically isolated from each other, and the adjacent holes having a predetermined center-to-center spacing between them and a distribution strip portion comprising at least one line of groups of spaced apart holes in the plate, each group comprising three to seven holes with adjacent holes being separated by a predetermined center-to-center spacing .

32. (New – Original Claim 13) The breadboard of claim 31 wherein the terminal strip portion comprises two elongate groupings of transversely extending rows of holes.

33. (New – Original Claim 14) The breadboard of claim 32 wherein the two groupings are spaced apart a distance which will result in an end hole in one row of holes in one grouping of rows of holes having a center-to-center distance of

approximately 0.3 inch with the closest end hole in a row of holes in the other grouping of rows of holes.

34. (New – Original Claim 15) The breadboard of claim 31 wherein said connection strip portion, said terminal strip portion and said distribution strip portion are all formed in a one piece, integral plate.

35. (New - Original Claim 16) The breadboard of claim 31 wherein said connection strip portion, said terminal strip portion and said distribution strip portion are formed in separate plates and then assembled together to form the breadboard.

36. (New – Original Claim 17) The breadboard of claim 31 being sized to fit directly into a commercially available project box.

37. (New – Revision of Original Claim 18) A method of making a bread-board or a circuit board comprising the steps of: providing a plate made of an insulating material and having opposite plate surfaces; providing a connection strip section in the plate or on one plate surface including a grouping of at least three rows of sets of at least three spaced apart holes or connection locations in each set on or in the plate, the centers of the holes or connection locations in each set being spaced from each other by a predetermined distance defined as a space; connecting at least three connector clips in the plate to three holes or connecting at least three connection locations together to form an at least three gang grouping, each grouping being referred to as a conductive strip, each of which is associated with a row of sets of holes or connection locations with all the conductive strips being electrically isolated from each other, and all said conductive strips in each row being offset from the conductive strip in an adjacent row and the sets being aligned in each row end-to-end, such that an array of spaces is formed, with each space in an interior row forming a center of a diamond shaped four pin socket or four point connector, that has a connector clip in the plate or a connector location on the plate at each of its four points or corners, that originates from a different conductive strip.

38. (New – Revision of Original Claim 19) A printed circuit board comprising a plate made of an insulating material and having opposite surfaces and having a connection strip portion including a grouping of at least three rows of sets of at least three spaced apart connection locations in each set on at least one of said plate surfaces, the centers of the connection locations in each set being spaced from each other by a predetermined distance, groups of conductive strips on one of said plate surfaces, each conductive strip being aligned with and in electrical conductivity with one of the rows of three spaced apart connection locations with all of the conductive strips being electrically isolated from each other, and the sets being aligned in each row end-to-end and each row being offset or staggered from each adjacent row, such that an array of spaces is formed, with each space in an interior row forming a center of a diamond shaped four connection point connector, that has a connection location on a conductive strip at each of its four points or corners, that originates from a different conductive strip.

39. (New) A printed circuit board of claim 38 wherein said connection strip portion is combined with various circuit patterns for the purpose of interfacing circuitry among and or between said various circuit patterns.